

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES UPGRADING THE EXISTING INTERSECTION CONTROL BEACON TO A FULL TRAFFIC SIGNAL AT THE INTERSECTION OF US 301 (ROBERT CRAIN HIGHWAY) AND CROOM STATION ROAD IN PRINCE GEORGE'S COUNTY. VIDEO DETECTION IS PROPOSED FOR PRESENCE DETECTION AND NON-INVASIVE MICROLOOP PROBES FOR SETBACK DETECTION. US 301 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE MAINLINE LEFT-TURN PHASING AND CONCURRENT SIDESTREET PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) VIDEO DETECTION INTERFACE AND ONE (1) FOUR CHANNEL DETECTOR AMPLIFIER WITHIN THE EXISTING CABINET.

OTHER

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #3 / OOTS ARE AS FOLLOWS:

District #3

Mr. Brian Young  
Assistant District Engineer - Traffic  
Phone: 301-513-7358

Mr. Augie Reblish  
District Utility Engineer  
Phone: 301-513-7350

Mr. Wayne Mowdy  
Assistant District Engineer - Maintenance  
Phone: 301-513-7304

Mr. Kevin Nowak  
Assistant District Engineer - Construction  
Phone: 301-513-7336

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Team Leader, Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Team Leader, Sign Operations  
410-787-7670

The Power Company Representative Is:

Potomac Electric Power Co.  
8300 Old Marlboro Pike  
Upper Marlboro, MD 20772  
PH: 301-961-5325

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9016	1 EA	UPDATEDJ 4 CHANNEL DETECTOR AMPLIFIER
9086	1 EA	UPDATEDJ VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	180 SF	UPDATEDJ SHEET ALUMINUM GROUND MOUNTED SIGN: 2 EA - D95-25 (24 IN. x 24 IN.) 2 EA W3-3, FY (36 IN. x 36 IN.) 4 EA - W3-3, FY (48 IN. x 48 IN.) 4 EA - D95-25 (30 IN. x 30 IN.) 4 EA - D-3(2) (72 IN. x 16 IN.) 1 EA - R5-1 (36 IN. x 36 IN.) 4 EA - R5-1a (36 IN. x 24 IN.)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

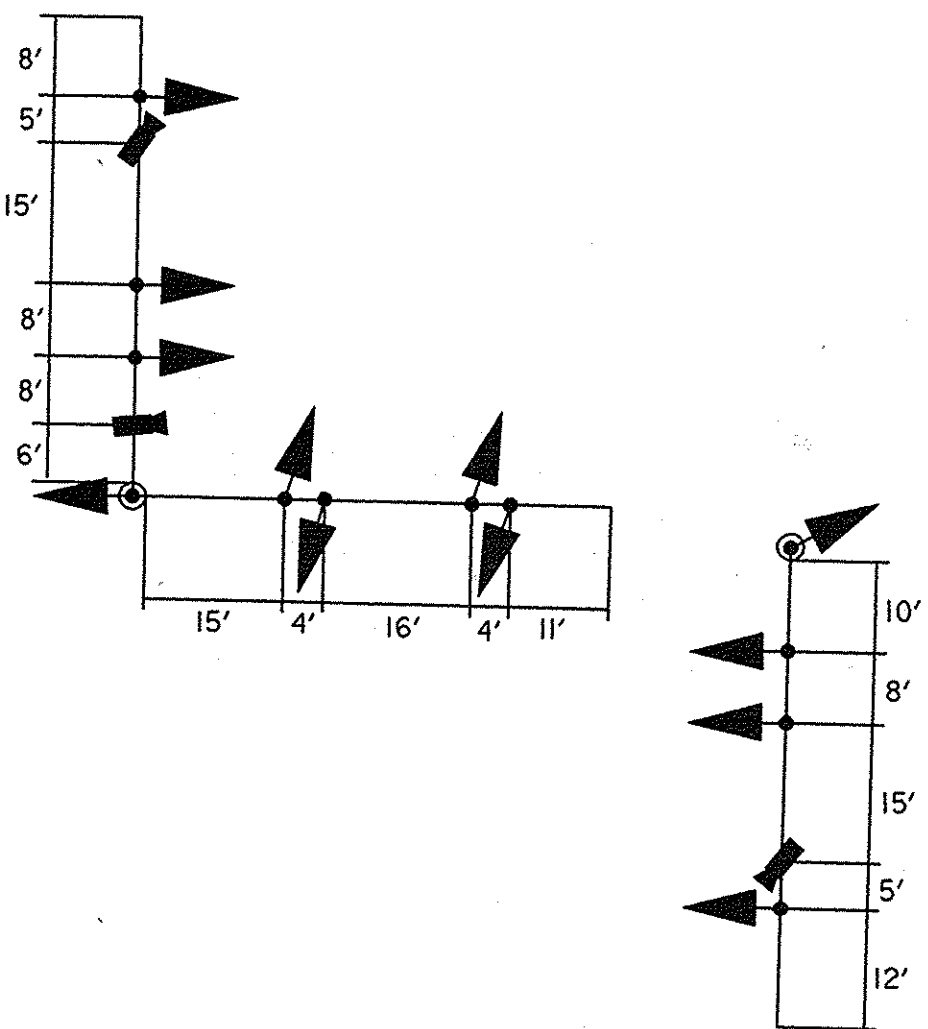
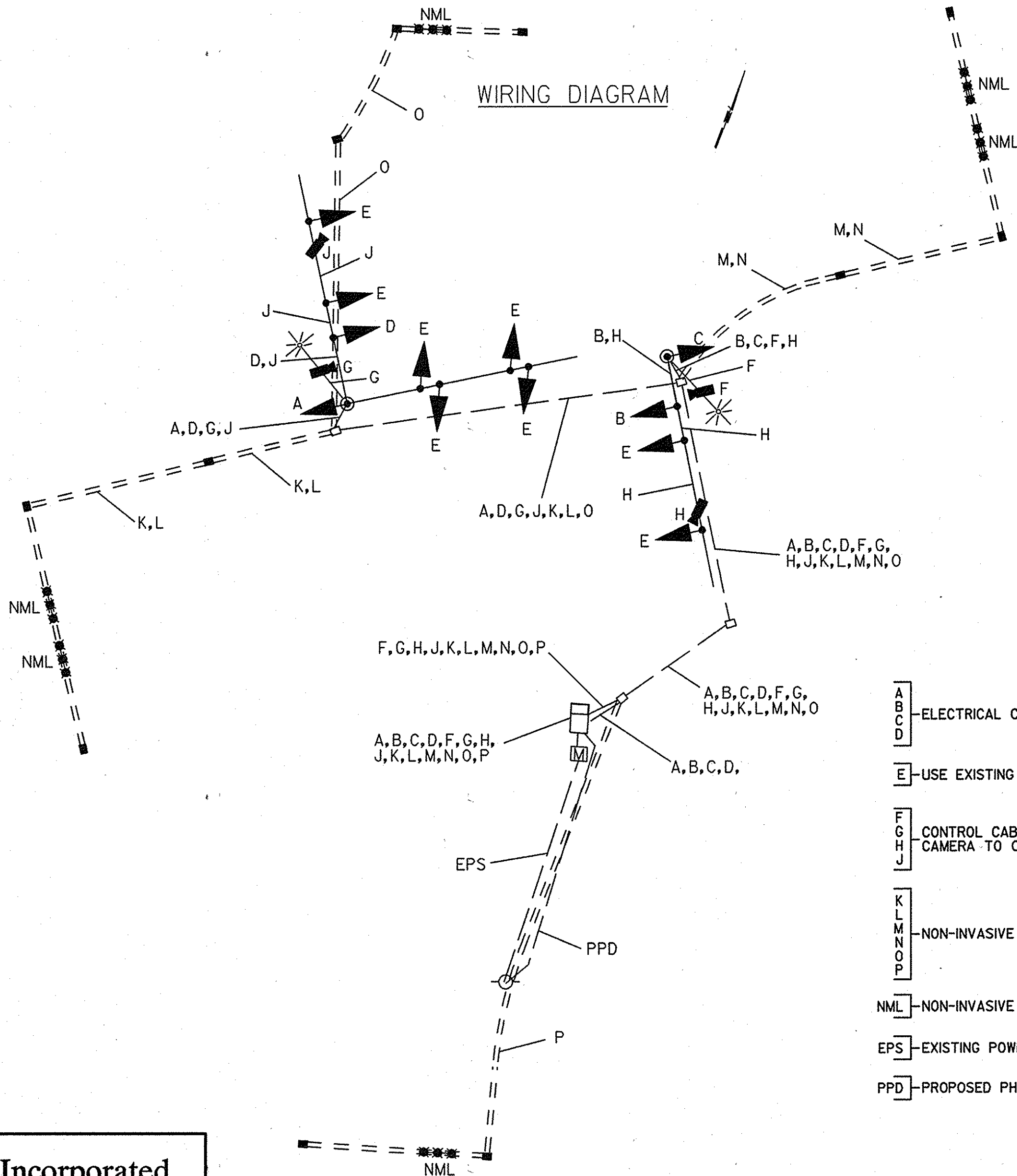
PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 1 AND 5	←G←	←G←	R	R	←G←	←G←	R	R	R	R	R	R	
PHASE 1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	←G←	←G←	G	G	R	R	R	R	R	R	R	R	
PHASE 1 CHANGE	←Y←	←Y←	G	G	R	R	R	R	R	R	R	R	
PHASE 2 AND 5	←R←	←R←	R	R	←G←	←G←	G	G	R	R	R	R	
PHASE 5 CHANGE	←R←	←R←	R	R	←Y←	←Y←	G	G	R	R	R	R	
PHASE 2 AND 6	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R	
PHASE 2 AND 6 CHANGE	←R←	←R←	Y	Y	←R←	←R←	Y	Y	R	R	R	R	
PHASE 4 AND 8	←R←	←R←	R	R	←R←	←R←	R	R	G	G	G	G	
PHASE 4 AND 8 CHANGE	←R←	←R←	R	R	←R←	←R←	R	R	Y	Y	Y	Y	
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1003	3 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5005	110 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	100 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT LINE MARKINGS
5007	85 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
8020	6 EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT
8021	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8025	4 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT
8033	180 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8034	30 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - SLOTTED
8035	1115 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8036	350 LF	WOOD SIGN SUPPORTS UP TO 4 x 6
8038	180 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8046	10 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8050	36 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8057	900 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)



SIGNAL HEAD LAYOUT

- A B C D - ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- E - USE EXISTING WIRING
- F G H J - CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
- K L M N O P - NON-INVASIVE MICROLOOP PROBE, LEAD-IN CABLE
- NML - NON-INVASIVE MICROLOOP PROBE SET
- EPS - EXISTING POWER SOURCE
- PPD - PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS

**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 301 (ROBERT CRAIN HIGHWAY) AND CROOM STATION ROAD

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 7/2008 CONTRACT NO. XX4445185

DESIGNED BY SDY COUNTY PRINCE GEORGE'S  
DRAWN BY AMT LOGMILE 16030112.34  
CHECKED BY BAB TMS NO. 1638  
F.A.P. NO. NA TOD NO. NA

TS NO. 4385A-GI DRAWING SG-02 OF 02 SHEET NO. 2 OF 2